

SECURITY INFORMATION

DOCUMENT NO. \_\_\_\_\_

NO CHANGE IN CLASS. ☐

IS DECLASSIFIED

CLASS. CHANGED TO: TS S **204**

NEXT REVIEW DATE: \_\_\_\_\_

AUTH: \_\_\_\_\_

DATE: 5/10/81

REVIEWER: 037189

18 September 1953

## MEMORANDUM FOR THE RECORD

SUBJECT: [redacted] Projects: P-60B, P-93, P-103,  
P-109, P-122, P-123, P-139

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1. On 21 August 1953, [redacted] of APD met with [redacted]

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[redacted] to discuss the current projects.

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2. Work on the fluid contact microphone project, P-109, has progressed to a point where we must supply more specific information and specifications before further progress can be made.

a. Specifications on the transistor amplifier are required, including input and output impedance, frequency response, gain and power supply available to operate transducer. A model has been promised as soon as it is available.

b. A sample of our present contact microphone was desired but it is considered so unsatisfactory as to be a poor standard of comparison.

c. The microphone will consist of a sensing element and various types of mounts. The present mounts considered are for a flat panel and a pipe. The sensing element can be made with any impedance over a wide range. It is inherently capacitive but an inductor may be added to make it more resistive.

3. In order to decrease excessive bulk of the Control System catalog, P-103, it was agreed that the standard items of large, well-known manufacturers will not be included. Unusual items and items of lesser known manufacturers will be included.

4. It is desired by [redacted] that the field of the Transducer Indexing, P-103, be narrowed or given some definite bounds.

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5. [redacted] wants more information on the source we intend to use with the Autocollimators they are reworking on P-60B. They stressed that the observer should be almost directly behind the source in order to see the autocollimator. His lateral displacement should be less than three feet per 1000 feet of range.

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6. The cable

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6. The cable decoding project was discussed with [redacted] of [redacted] on 21 August 1953. More specific information is required before a proposal can be submitted.

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a. What is the form of incoming information? Teletype tape would be preferable to printed characters because the tape would operate the machine automatically and hand-feeding of information would not be required.

b. Is a microfilm reader all right?

c. Is there any desire for translation to English?

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7. The pending proposal for the investigation of covert underwater and underground communications systems was discussed at [redacted] on 21 August 1953 with [redacted]

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8. When asked for specification, it was stated that this was an unbounded investigation for methods of underground and underwater communications.

9. The following specifications were made:

a. The desired range is 1 mile or greater.

b. Underwater communications will be chiefly in fresh water. Neither party will be submerged in the water.

c. Probes may be placed in the ground or water.

d. Equipment portable.

e. No restrictions regarding CW or voice.

10. [redacted] is planning to submit a proposal for building a miniature pocket recorder to record 1/2 hour of voice. The recorder will be as simple as possible and the complexity will be in reproducer.

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